

ABSTRACT OF THE DISCLOSURE

Electrical power source apparatuses, circuits, electrochemical device charging methods, and methods of charging a plurality of electrochemical devices are provided. According to one aspect, an electrical power source apparatus
5 includes a plurality of charging nodes, a plurality of electrochemical devices individually coupled with a respective one of the charging nodes and individually configured to assume an open-circuit condition in a substantially charged state and a plurality of shunting devices coupled with respective ones of the charging
nodes and individually configured to shunt electrical energy from a respective
10 one of the charging nodes after the respective electrochemical device assumes the open-circuit condition.